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Assessment of inhibitive property of sulfur as a filler of polymer materials with a view to reduce technogenic impact on ecology

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Abstract

© National Academy of Sciences of the Republic of Kazakhstan, 2017. According to modern representations bitumen polymer compositions (BPC) are dispersions of polymers with bitumens. The important stage of creation of durable insulating materials is their inhibition in consequence of oxidation processes in conditions of their application. In this connection the most acceptable substance is sulfur-containing compounds, which effectively performs this role. Currently sulfur production is sharply marked from the number of other extractive industries that from the ecological point of view the most important problem is not achievement of sustained development condition by the sulfur production, but solution of problems of safe storage or even disposal of extracted sulfur. As against other extractive industries, which main efforts are focused on the search of more effective methods of production of required component against its decreasing world reserves, leading companies in sulfur industries worried first of all by the search of new ways for safe management by extracted by them resource.

Keywords

Film-forming substances, Insulating properties of coatings, Oil dispersed systems (ODS), Petro chemistry, Physical-mechanical, Pigments, Sulfur, Thermoplastic resins (TPR)

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